

What is claimed is:

1 1. A backlight module comprising:

2 a reflector;

3 a support disposed on the reflector;

4 a lamp disposed in the support; and

5 a diffuser plate disposed on the reflector, wherein

6 a first gap with a predetermined size is formed

7 between the support and the diffuser plate so

8 that the diffuser plate is abutted by the

9 support when the support is expanded.

1 2. The backlight module as claimed in claim 1,

2 wherein the support comprises:

3 a fixed portion fixed on the reflector; and

4 a retaining portion integrally formed with the fixed

5 portion, wherein the first gap is formed

6 between the retaining portion and the diffuser

7 plate so that the diffuser plate is abutted by

8 the retaining portion when the support is

9 expanded.

1 3. The backlight module as claimed in claim 2,

2 wherein the fixed portion is adhered to the reflector.

1 4. The backlight module as claimed in claim 2,

2 wherein the reflector includes a through hole, and the

3 fixed portion is fixed on the reflector by passing

4 through the through hole.

1 5. The backlight module as claimed in claim 4,

2 wherein the support includes an elastic portion at the

3 fixed portion and the elastic portion engages with the
4 through hole so that the support is fixed on the
5 reflector.

1 6. The backlight module as claimed in claim 2,
2 wherein the diffuser plate is abutted by the retaining
3 portion in a point contact manner.

1 7. The backlight module as claimed in claim 2,
2 wherein the retaining portion is formed with a curved
3 surface to be abutted by the diffuser.

1 8. The backlight module as claimed in claim 1,
2 wherein a second gap with a predetermined size is defined
3 between the support and the lamp so as to prevent the
4 lamp from being damaged by the support when the support
5 is deformed.

1 9. The backlight module as claimed in claim 1,
2 wherein the support is made of white or transparent
3 material.

1 10. The backlight module as claimed in claim 1,
2 wherein the lamp is surrounded by the support.

1 11. A backlight module comprising:
2 a reflector;
3 a diffuser plate disposed on the reflector;
4 a plurality of lamps disposed between the reflector
5 and the diffuser plate; and
6 a plurality of supports disposed on the reflector in
7 a manner such that the supports are abutted by

the diffuser plate, wherein each of the lamps
is retained by one of the lamps respectively.

12. The backlight module as claimed in claim 11,
wherein each of the supports comprises:

a fixed portion fixed on the reflector; and

a retaining portion integrally formed with the fixed
portion, wherein a first gap with a
predetermined size is formed between the
retaining portion and the diffuser plate so
that the diffuser plate is abutted by the
retaining portion when the support is expanded.

13. The backlight module as claimed in claim 12,
wherein the fixed portion is adhered to the reflector.

14. The backlight module as claimed in claim 12,
wherein the reflector includes a through hole, and the
fixed portion is fixed on the reflector by passing
through the through hole.

15. The backlight module as claimed in claim 14,
wherein each of the supports includes an elastic portion
at the fixed portion, and the elastic portion engages
with the through hole so that the support is fixed on the
reflector.

16. The backlight module as claimed in claim 12,
wherein the diffuser plate is abutted by the retaining
portion in a point contact manner.

1 17. The backlight module as claimed in claim 12,
2 wherein the retaining portion is formed with a curved
3 surface to be abutted by the diffuser plate.

1 18. The backlight module as claimed in claim 11,
2 wherein a second gap with a predetermined size is defined
3 between the support and the corresponding lamp so as to
4 prevent the lamp from being damaged by the support when
5 the support is deformed.

1 19. The backlight module as claimed in claim 11,
2 wherein the supports are made of white or transparent
3 material.

1 20. The backlight module as claimed in claim 11,
2 wherein each of the lamps is surrounded by one of the
3 supports respectively.